

Datasheet for ABIN3094266

NOTCH4 Protein (AA 24-1447) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	NOTCH4
Protein Characteristics:	AA 24-1447
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOTCH4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>RGLLCGSFPE PCANGGTCLS LSLGQGTCQC APGFLGETCQ FPDPCQNAQL CQNGGSCQAL</p> <p>LPAPLGLPSS PSPLTPSFLC TCLPGFTGER CQAKLEDPCP PSFCSKRGRC HIQASGRPQC</p> <p>SCMPGWTGEQ CQLRDFCSAN PCVNGGVCLA TYPQIQCHCP PGFEGHACER DVNECFQDPG</p> <p>PCPKGTSCHN TLGSFQCLCP VGQEGPRCEL RAGPCPPRG C SNGGTCQLMP EKDSTFHLCL</p> <p>CPPGFIGPDC EVNPDNCVSH QCQNGGTCQD GLDTYTCLCP ETWTGWDCSE DVDECETQGP</p> <p>PHCRNGGTCQ NSAGSFHCVC VSGWGGTSCE ENLDDCIAAT CAPGSTCIDR VGSFSCLCPP</p> <p>GRTGLLCHLE DMCLSQPCHG DAQCSTNPLT GSTLCLCQPG YSGPTCHQDL DECLMAQQGP</p> <p>SPCEHGGSC L NTPGSFNCLC PPGYTGSRC ADHNECLSQP CHPGSTCLDL LATFHCLCPP</p> <p>GLEGQLCEVE TNECASAPCL NHADCHDLLN GFQCICLP GF SGTRCEEDID ECRSSPCANG</p> <p>GQCQDQPGAF HCKCLPGFEG PRCQTEVDEC LSDPCPVGAS CLDLPGAFFC LCPSGFTGQL</p> <p>CEVPLCAPNL CQPKQICKDQ KDKANCLCPD GSPGCAPPED NCTCHHGH CQ RSSVCVDVGW</p> <p>TGPECEAELG GCISAPCAHG GTCYPQPSGY NCTCPTGYTG PTCSEEMTAC HSGPCLNGGS</p>
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CNPSPGGYYC TCPPSHTGPQ CQTSTDYCVS APCFNGGTCV NRPGETFSCLC AMGFQGPRCE
GKLRPSCADS PCRNRTCQD SPQGPRCLCP TGYTGGSCQT LMDLCAQKPC PRNSHCLQTG
PSFHCLCLQG WTGPLCNLPL SSCQKAALSQ GIDVSSLCHN GGLCVDSGPS YFCHCPPPGFQ
GSLCQDHVNP CESRPCQNGA TCMAQPSGYL CQCAPGYDGG NCSKELDACQ SQPCHNHGTC
TPKPGGFHCA CPPGFVGLRC EGDVDECLDQ PCHPTGTAAC HSLANAFYCQ CLPGHTGQWC
EVEIDPCHSQ PCFHGGTCEA TAGSPLGFIC HCPKGFEGPT CSHRAPSCGF HHCHHGGLCL
PSPKPGFPPR CACLSGYGGP DCLTPPAPKG CGPPSPCLYN GSCSETTGLG GPGFRSCSPH
SSPGPRCQKP GAKGCEGRSG DGACDAGCSG PGGNWDGGDC SLGVDPDPWKG CPSHSRCWLL
FRDGQCHPQC DSEECLFDGY DCETPPACTP AYDQYCHDHF HNGHCEKGCN TAECGWDGGD
CRPEDGDPEW GPSLALLVVL SPPALDQQLF ALARVLSLTL RVGLWVRKDR DGRDMVYPYP
GARAEKLGG TRDPTYQERA APQTQPLGKE TDSLSAGFVV VMGVDSLRCG PDHPASRCPW
DPGLLLRFLA AMAAVGALEP LLPGPLLAVH PHAGTAPPAN QLPW

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human NOTCH4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	NOTCH4
Alternative Name:	NOTCH4 (NOTCH4 Products)
Background:	Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs. May regulate branching morphogenesis in the developing vascular system (By similarity). {ECO:0000250}.
Molecular Weight:	150.1 kDa Including tag.
UniProt:	Q99466
Pathways:	Notch Signaling

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you

Application Details

receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process